

ELECTIC KETTLES

- ☞ Do not over fill kettle for just one drink. Heat only the amount of water you need.
- ☞ Purchase electric kettle with an automatic shut off button and a heat resistant handle.
- ☞ Clean Electric kettle by combining boiling water and vinegar as dirty kettles consumes more energy.

COMPUTERS

- ☞ Turn OFF your computer when not in use.
- ☞ If computer must be left 'ON' then turn 'OFF' the monitor. This device alone uses more than half the system's energy.
- ☞ Set computers to use sleep mode when not in use. It will save approximate 40% energy.
- ☞ Battery chargers for laptop, cell phone and digital camera itself draw power whenever they are plugged. Unplug them and save the energy.

WASHING MACHINES

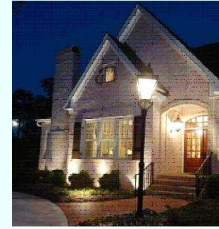
- ☞ Always wash only with full load.
- ☞ Always use cold water in the rinse cycle.
- ☞ Use optimal quantity of water.
- ☞ Use timer facility to save energy.
- ☞ Prefer natural drying over electric dryers.

TELEVISION & ELECTRONIC DEVICES

- ☞ Switch 'OFF' manually, T.V., Tape, Deck, VCR/VCD player etc. instead of by remote. These equipments consume 10W to 30W while switching off from remote.

GENERAL POINTS

- ☞ Thermostat should be used in all cooling & heating appliances.
- ☞ Avoid joints and loose connections in house wiring.
- ☞ All home appliances must be earthed.
- ☞ Use 'SOLAR' energy appliances as possible.
- ☞ During full moon nights, moon light may be used and street light may be switched 'OFF'.
- ☞ Avoid indirect/ fancy/ decorative lighting. Neon/pigmy night lamps can be used.
- ☞ Interior of room should be painted white/ light colour and roof should be painted with lime it will help to reduce the inside temperature of the room approx. 8°C.
- ☞ Avoid dry grinding in your food processors (mixers and grinders) as it takes longer time than liquid grinding.



USE OF STAR RATED APPLIANCES

- ☞ Purchase electrical appliances of higher star rating endorsed by 'Bureau of Energy Efficiency (BEE)' to reduce energy consumption as well as carbon emission.



ONE UNIT SAVED

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TWO UNITS GENERATED

Note :-

The contents of this pamphlet are informative. For more in depth information and details, go through the manufacture's instructions.

If you have any suggestion or comment, please write to:

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भारत सरकार GOVERNMENT OF INDIA
रेल मंत्रालय MINISTRY OF RAILWAYS

ENERGY SAVING TIPS FOR DOMESTIC APPLIANCES

CAMTECH/2009/E/ES-Dom.App.

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ENERGY SAVING TIPS FOR DOMESTIC APPLIANCES

INTRODUCTION

- ☞ Limited resources & growing demand of energy poses a clear need for energy conservation.
- ☞ Energy conservation means 'Reducing energy consumption by adopting modern energy efficient appliances and measures without affecting output or comfort level'.

LIGHTING SYSTEM

- ☞ Prefer use of natural lighting through windows and other openings.
- ☞ One 'OFF' the best energy saving devices is the light switch: Turn 'OFF' light switch when not required.
- ☞ Use of CFLs saves up to 75% electricity in comparison to incandescent lamps for the same lighting levels.
- ☞ Clean tube lights and lamps regularly as dirty lamps reflect less light and waste up to 50% of the light.
- ☞ Many automatic devices can help in saving energy such as infra red sensors, motion sensors, automatic timers for street & road lights, dimmers etc. may be used for automatically switch 'ON/OFF' lighting circuits.
- ☞ Use task light, which focuses light where it is needed.



COOLERS AND FANS

- ☞ Exhaust opening should be three times the sweep area.
- ☞ Use electronic regulators for fans.
- ☞ Turn 'OFF' fan switch when not required.
- ☞ Overhaul fans & coolers before season for better efficiency.
- ☞ Provide automatic 'ON'/ 'OFF' Timer in cooler pump to save electricity as well as water.

ROOM AIR CONDITIONERS

- ☞ Use fan as first line of defence against summer heat. It will cost 40 paise per hour in comparison to Rs. 10 per hour for Air Conditioner.
- ☞ Select capacity of air conditioner as per room volume.
- ☞ Optimize air conditioning volume by providing false-ceiling.
- ☞ Air conditioner room must be air sealed.
- ☞ Do not keep heat absorbing materials in side AC room.
- ☞ Use door closer in AC rooms.
- ☞ Switch 'OFF' AC units half an hour before leaving the room.
- ☞ Clean the AC air filter & condenser coil regularly.
- ☞ Set the thermostat of Air Conditioner at 25°C (77°F) to provide most comfort at least cost.
- ☞ Upto 40% of energy can be saved by shading rooms, windows and walls. Plant tree, shrubs to keep the day's hottest sun off the building.



REFRIGERATORS

- ☞ Keep the Refrigerator away from heat sources.
- ☞ Do not keep hot items in side the refrigerator.
- ☞ Allow enough space for continuous air flow around refrigerator to cool down its compressor and condenser coil.
- ☞ Don't leave the door open and avoid frequent opening.
- ☞ Don't use defective refrigerator. Disconnect it from power supply.
- ☞ Make sure that rubber door seals are clean and tight.
- ☞ Defrost freezer compartment regularly.

WATER HEATER

- ☞ Provide thermal Insulation on hot water pipes to reduce heat loss.
- ☞ Prefer use of proper grade plastic pipes for hot water lines.
- ☞ Set the thermostat at lower setting i.e. 50°C instead of 60°C. It will save up to 20% of energy used at the higher setting.

MICROWAVE OVENS

- ☞ Microwave saves up to 50% of energy in comparison to regular oven by reducing cooking time, especially for small quantities of food.
- ☞ Place larger and thicker items on the outer-side in microwave oven as microwaves cook food from the outside edge toward the centre.
- ☞ Use ovens on full load. Wait for load if system permits. Stop idle running of ovens.

